2 Satellites From Ft. Monmouth Go into Smithsonian Institution

This is the Courier satellite display.

FT. MONMOUTH—Two pioneering Ft. Monmouth satellites. Score and Courier, today joined the "Spirit of St. Louis" in Washington's Smithsonian Institution.

Score and Courier were the Electronics Command, a major element in the Army Materiel Command. The organization The organization The organization The Organization The Satellites and Electronics and

mand.

It was the world's first communications satellite.
Courier, much more sophisticated and with a far greater capacity than Score, was launched Oct. 4, 1960. Courier could either relay directly or store and forward nearly 400,000 words — about three novels—in one four minute pass over a ground station.

Both satellities were major

a ground station.

Both satellites were major steps forward in the space age —Score (for signal communications by orbiting relay equipment) not only opened the satellite communications age, but was a major boost for 1958's U.S. prestige around the world.

U.S. prestige around the world.
Score Helped
Score upped the U.S. score
to four successful satellites to
the Soviet Union's three, and
by transmitting intelligible messages it proved to the general
public that artificial satellites
were something more than vehicle launched to orbit the earth
for more or less vague scientific purposes.
Furthermore, Score was the
first U.S. satellite visible to the
naked eye under proper conditions.
Secret Kept

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Only 88 men in the nation, among them the group of engineers, technicians and scientists from the Ft. Monmouth Laboratories, knew a bout Score and its objectives.
Score was largely designed and built at the laboratories, but major components were made by a number of contractors.

made by a number of contractors.

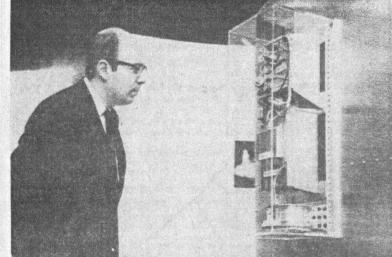
Radio Corporation of America, for example, made the transmitters and receivers.

Score remained in orbit and active for 34 days before it burned up in the atmosphere.

While Score was a major achievement, it was as primitive compared to Courier as Courier is to the Syncom satelite which maintains its position over one section of the earth.

Voice Relayed
The 500-pound Courier was a

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The 500-pound Courier was a
complete satellite. The electronics package — an exact
duplicate of the backup satellite being presented to the
Smithsonian, was a complete
space relay for voice and teletypewriter messages and facsimile — that is, it could and did



Elliot N. Sivowitch, division of electricity, Smithsonian Institution, inspects Score satellite display, (UPI)

SATELLITES

From Page 1
The "bird" itself was built by Phileo Corp., a subsidiary of the Ford Motor Corp., under the technical supervision of the Ft. Monmouth Laboratories. Its tremendous capacity was achieved by sophisticated ground equipment.

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The ground equipment was built by International Telephone and Telegraph Corp., Nutley. Two antennas, one erected at Fi. Monmouth and the other in Puerto Rico, were built by Radiation Inc., of Melbourne, Fla. All work was under the technical supervision of the Army Electronics Laboratories

Courier, which is still circling the earth, although it is nonoperative, was launched by a Thor - Able - Star missile and achieved near-perfect orbit.

It operated successfully for 17 days, relaying millions of words both teletypewriter and voice, between Ft. Monmouth amd Puerto Rico. It also relayed theirst photograph ever sent into space and returned to earth, with the facsimile-typ transmission being made during one four-minute pass over the Ft. Monmouth station.

News Sent

Courier also relayed thousands of words of news copy for the nation's newspapers, wire services and technical publications, all of which were printed under the line "Via Courier Satellite."

A further sidelight on its efficient operation was the con-

Courier Satellite."

A further sidelight on its efficient operation was the conversations between the technical crews at Ft. Monmouth and Puerto Rico. When normal land and radio lines for telephonic communication between the two points were clogged, messages and conversations were relayed in both directions by Courier with the greatest clarity.

Today's artificial communication

with the greatest clarity.

Today's artificial communications satellites, such as Telstar and Relay, have much
greater bandwidths than Courier and can therefore relay not
only messages but television.
And Syncom, doine a lazy figure 8 out in space over one
spot of the earth is not limited
in operating time by an orbit.

But Courier, and its primitive

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But Courier, and its primitive predecessor, Score, were the first vehicles to prove the immense possibilities of satellite relay of communications of all types. These Art / research and development projects — the first active-relay communications satellites — opened a

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